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## KARTHIK PS

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### PROFILE SNAPSHOT

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*Goal in the Organization is to excel in the opportunities and proving myself to the Organization with my talents and capabilities. Can provide solutions effectively and efficiently. Always ready to accept challenging tasks. Being more ambitious and enthusiastic towards technologies, I'm willing to learn and update my skills up to the mark.*

- Implemented real-time **log analytics pipeline using Kafka**, storm, elastic search, Logstash kibana.
- Maintaining the Elasticsearch cluster and Logstash nodes to process of Data  
Daily from various sources like Kafka etc.
- Created and Maintaining Real-Time Dashboards in kibana for (Unique viewers, Unique Devices, ClickEvents, Client Errors, Average Bitrate etc.
- Design, build and manage the ELK (ElasticSearch, Logstash, Kibana) cluster for centralized logging and search functionalities for the App.
- Responsible for designing and deploying new ELK clusters (Elasticsearch, logstash, Kibana, Kafka, zookeeper etc.
- Written and Maintained Automated Salt scripts for Elasticsearch, Logstash, Kibana, and Beats.
- Installation using Automated Salt Scripts in all the Environment from Dev to PROD.
- Responsible for setting up infrastructure for different environments  
(like Dev, QA, Pre-prod and Production)
- SPOC for all ELK related requests/issues.
- Participate in the development of strategic goals for leveraging big data.
- Work with engineering teams to optimize Elasticsearch data ingest and search.
- Elasticsearch and Logstash performance and configuration tuning.
- Respond to and resolve access and performance issues.
- Maintain change control and testing processes for all modifications and deployments.  
Conduct research and make recommendations on big data products, services.
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## CERTIFICATIONS

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- Aws certified solution architect

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## SKILLS

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|---|---|
| • Kafka Elk stack, Zookeeper basic hive, git          | • Data manipulation                         |
| Jenkins, docker basics, kubernetes helm charts basics | • Agile methodology                         |
| • Programming: UNIX, python                           | • Planning and implementation               |
| • NO-SQL: MongoDB                                     | • Excellent problem-solving abilities       |
| • Operating Systems: Linux, CentOS, Ubuntu, Windows+  | • Excellent diagnostic skills               |
| • Cloud Services: Amazon Web Services (AWS)           | • Besant technology : python, aws,hadoop    |
| • Jira  | Udemy course skills: data science, Basic AI |
| • Team collaboration                                  |   |

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## WORK HISTORY

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**Associate Consultant Technology**, 01/2019 to 10/2021

**Virtusa Consultant Pvt Ltd** Chennai

Project Name: NYL Microservices DevOps Flex (Data Team)

Used to work in ELK stack,Apache Kafka.

Writing Logstash scripts input Kafka output Elasticsearch and Kibana.

Used to query by creating indexing,insert, up-sort, aggregation sorting, match, bool, term, join fields etc.

Used to run Logstash config.

Writing python script for **Kafka producer API** and **consumer API** for **Kafka**

Created **Kafka topic**, **sent** message to **elasticsearch** resulting will be viewed in Kibana.

Rest API queries were also used.

Worked in AWS environment

Wrote PSQL script, executed one-time load script as well as reload script.

Worked in agile environment.

Project Name: NYL Microservices DevOps Flex - POC AMAZON DOCUMENT DBf

## PROJECT

Project Name: NYL Microservices DevOps Flex - POC

### Description:

Amazon Document DB (with MongoDB compatibility) is a fast, scalable, highly available, and fully managed document database service that supports MongoDB workloads. As a document database, Amazon Document DB makes it easy to store, query, and index JSON data. Amazon Document DB is designed from the ground-up to give you the performance, scalability, and availability you need when operating mission-critical MongoDB workloads at scale. In Amazon Document DB, the storage and compute are decoupled, allowing each to scale independently, and you can increase the read capacity to millions of requests per second by adding up to 15 low latency read replicas in minutes, regardless of the size of your data. Amazon Document DB is designed for 99.99% availability and replicates six copies of your data across three AWS Availability Zones (AZs). You can use AWS Database Migration Service (DMS) for free (for six months) to easily migrate their on-premises or Amazon Elastic Compute Cloud (EC2) MongoDB databases to Amazon Document DB with no downtime.

Technology: **Kafka, Logstash, Document DB,**

### Responsibilities:

Worked in Logstash used to write Logstash script execute the script.

Writing python script for producer and consumer API in Kafka.

**Created Kafka topic, sent message to AMAZON DOCUMENTDB.**

Worked in Agile Methodology Developed the **functionalities** under **Agile**

**Methodology, JIRA** processes and used JIRA for task assignment

**Data mining** activity **XML file** and send the **payload** details to the **onshore te**

**VVam**

Nyl legmodization team

Virtusa

**Client** :new york life **insurance**

### Responsibility :

Check whether you have existing working payloads in SoapUI project.

What are the endpoint which return successful data for available payload in SoapUI Project.

Identify Mandatory and Option elements for payloads and analyze the behavior .

Once Logs enabled focus on sample payloads finding (data mining)

Worked in Agile flatworm

**Msc Molecular Biology: 2011****Dr.AIMPG School of basic medical science department of genetics****University of Madras Taramani-, Chennai. India****BSc Advanced Zoology and biotechnology :2009****Rkm Vivekananda College Mylapore Chennai.****International diploma in stem cells and regenerative medicine. 2022****Auto stem cells laboratory****Tamilnadu****Chennai****Molecular biology skills**

Western Blot, Dot Blot, cancer Cell Culture, MTT assay, 'SDS Phage Gel Electrophoresis, Stem Cell Culture, Agarose Gel Electrophoresis. PCR, DNA extraction

**Auto Stem Labs A+ Distinction**

**Project:** Pluripotent stem cells are endowed with the ability to differentiate into various types of cells found in the human body. Multiple studies isolated mesenchymal stem cells (MSCs) from human tissues, bodily fluids, and peripheral blood. To better understand their phenotypic nature, molecular and cellular markers illustrate these stem cells. Due to their inherent inclination and neural crest origin, human dental pulp stem cells (hDPSCs) are a gripping target for therapeutic applications. HDPSCs possess the MSC phenotype and are classified as cardiomyocytes, neurons, osteoblasts, liver cells, chondrocytes, and pancreatic beta cells. As a result, HDPSCs demonstrated more significant potential in regenerative medicine for pick up the check various human dental diseases.

**Techniques:** HUMAN DENTAL PULP STEM CELLS culture, characterization.

**MSc Molecular Biology**

2009 – 2011

**University of Madras, CGPA: 6.551**

**Thesis:** Collagen was immobilized in PVA is publicized to be effective antimicrobial activity in vitro. It is inflexibly to putative that the superficial of a biomaterial is where the first interface between the biomaterial and biological system occurs. Therefore, the shallow belongings of a biomaterial play an essential role in influential its biocompatibility and strongly influence biological response to it. It also defines its long-term recital in vitro. This study exhibited that the enzyme is astoundingly unchangeable and obliges as a suitable

model enzyme for further studies of immobilized enzyme therapy.

- **Techniques:** MIC, MBC, PVA-Collagen Hydrogel, SEM Analysis.

**BSc Advance Zoology and Biotechnology**

2006 – 2009

Vivekananda College,

University of Madras, CGPA: 7.2

- **TRIMS LAB VIZAG** (10<sup>TH</sup> OF JUNE 2011-10<sup>TH</sup> OF SEP 2011)
- **PROJECT:** To govern an Anticancer bustle of cancer cell lines (skmel 28, KB-chr85, NCI-H23), these cell lines be positioned to upheld in MEM medium cells were endangered to Sub cultured, cryopreserved and imperiled to the MTT assay and IC 50 PRISM .
- **TECHNIQUES:** Methanol Extracts, SKMEL28, NCI-H23 Cell Culture, MTT assay (Cytotoxicity, IC50 prism
- **SRM MEDICAL RESEARCH CENTER KATANGALATHUR** 25<sup>TH</sup> OF MARCH 2013 TO 25<sup>TH</sup> OF JUNE 2013 (MOLECULAR BIOLOGY LAB)
- **POSTION: JUNIOR RESEARCH FELLOW**
- **PROJECT:** “EICLUCIDATION OF MECHANISM BY WHICH PTU CLEARS LEASONS IN PSORIATIC PATIENTS YOUNG SCIENTIST FAST TRACK SCHEME DEPARTMENT OF SCIENCE AND TECHNOLOGY GOVERNMENT OF INDIA “. ALL PATICIPANTS SIGNED AN INFORMED CONCENT FORM.
- **TRPVB** (AUGUST 2014 – OCT 2014)
- **PROJECT:** PPRV VACCINE DEVELOPMENT
- **TECHNIQUES:** DOT BLOT, SDS PAGE, WESTERN BLOT AND MEM CELL CULTURE
- **TRANS-CELL BIOLIFE (Stem cell biobank)** 1<sup>ST</sup> JUNE 2022 -16 JULY 2022
- **POSITION:** PROCESS ASSISTANT
- **WORKED CORD BLOOD SAMPLES CENTRIFUGE, BUFFY COAT STORAGE FOR FUTURE USE, Cord Tissue Mesenchymal stem cells**

## CONFERENCES AND CERTIFICATIONS

- Charusat International Conference on Molecular Medicine (Molmed - 2011 International Conference on Molecular Medicine - Metabolic Disorders and Mini-Symposium on Ageing)
- Online Hands-on Training on NGS – RNA – SEQ Analysis QSTATIX Auto Stem Laboratory, 4th Sep 2020-10<sup>th</sup> of Sep 2020.
- Participated in Workshop on RNA Sequence Data Analysis, Bionivid Technologies, Aug 2020
- Srirangam medical college hospital and research Centre Indian academy of tropical parasitology “HOW TO SUCCEED IN PUBLISHING SCIENTIFIC PAPERS” ON 14<sup>TH</sup> OF JAN 2013

## PUBLICATION

Evaluation of Antioxidant and Anticancer Properties of Methanolic Extracts of *Abutilon Indicum* and *Blumea mollis*, February 2012, Journal of Pharmacy Research 2012;5(23):2373-23, **Authors:** Srikanth.P, Karthik PS, Raaj, Sirisha